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**ABSTRACT**

The invention relates to an internal control device for a mechanical gearbox comprising first and second input clutches (40, 41) which, respectively, control the transmission from the engine torque towards first and second primary concentric shafts (20, 30) bearing: stationary pinions (21, 22, 23, 31, 32); two output shafts (50, 60) supporting idle pinions which are driven respectively by the first and second input shafts; and means (100, 101, 102 103) for jaw clutching said idle pinions, which are actuated by an assembly of shift forks (230, 240, 250, 260). The invention is characterised in that all of the gearbox ratios are selected and switched by a common selector (210) comprising a selector cylinder (211) and a switching carriage (220) which is concentric to the cylinder and which is disposed therein.